

## PATENT COOPERATION TREATY

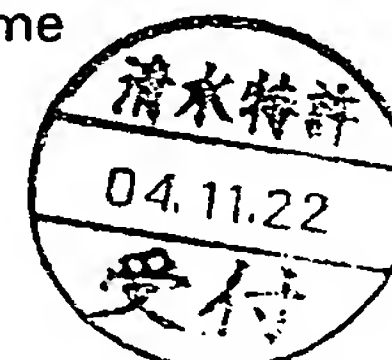
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Date of mailing (day/month/year) 10 November 2004 (10.11.2004)	
Applicant's or agent's file reference PA-04031/PCT	<b>IMPORTANT NOTIFICATION</b>
International application No. PCT/JP2004/011331	International filing date (day/month/year) 30 July 2004 (30.07.2004)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 31 July 2003 (31.07.2003)
Applicant SHOWA DENKO K.K. et al	

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<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
31 July 2003 (31.07.2003)	2003-284440	JP	15 Octo 2004 (15.10.2004)
06 Augu 2003 (06.08.2003)	60/492,735	US	15 Octo 2004 (15.10.2004)
26 July 2004 (26.07.2004)	2004-216903	JP	15 Octo 2004 (15.10.2004)

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP 2004/011331

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> B21J 5/08, 9/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> B21J 1/00 - 13/14, 17/00 - 19/04, B21K 1/00 - 31/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 9-253782 A (MATSUMOTO HEAVY INDUSTRY CO., LTD) 1997.09.30, the whole document (Family: none)	1-4, 9-19 5-8
X A	WO 93/17808 A (ENKOTEC A/S) 1993.09.16, the whole document & JP 7-506768 A	1-4, 9-19 5-8
A	JP 59-130641 A (YUSA AKIRA) 1984.07.27, the whole document (Family: none)	1-19
A	JP 61-60236 A (K.K. NAKURA TEKKOJO) 1986.03.27, the whole document (Family: none)	1-19
A	JP 62-34642 A (OSAKA DENKI K.K.) 1987.02.14, the whole document (Family: none)	1-19
P, X	JP 2003-290862 A (TSUKIBOSHI MFG CO., LTD) 2003.10.14, the whole document (Family: none)	1-4, 9-19 5-8

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

24.11.2004

Date of mailing of the international search report

14.12.2004

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